LEVEL 3 VIDEO DELIVERY

YOUR AUDIENCE IS EVERYWHERE AND ON EVERY KIND OF DEVICE. TO STAY RELEVANT, YOU NEED TO DELIVER THE HIGH-QUALITY, END-TO-END EXPERIENCE YOUR CUSTOMERS DEMAND, SEAMLESSLY AND CONSISTENTLY.

Level 3 Video Delivery Service Can Help

Designed to support the major content platforms of television, Internet and gaming, you can rely on Level 3's Video Delivery service to deliver a quality experience across a broad range of devices, simply and reliably. And it's backed by our global network to help ensure your quality delivery is sustained for large online audiences.

Video Delivery Service Benefits

Optimize video quality based on viewer bandwidth and device for an enhanced experience via Level 3's Content Delivery Network (CDN).

Deliver on-demand and live broadcasts with confidence by relying on a complete solution provider with more than 25 years of experience with broadcast and IP capabilities.

Access more than 42Tbps of global serving capacity through Level 3's IP network to support large releases and traffic spikes.
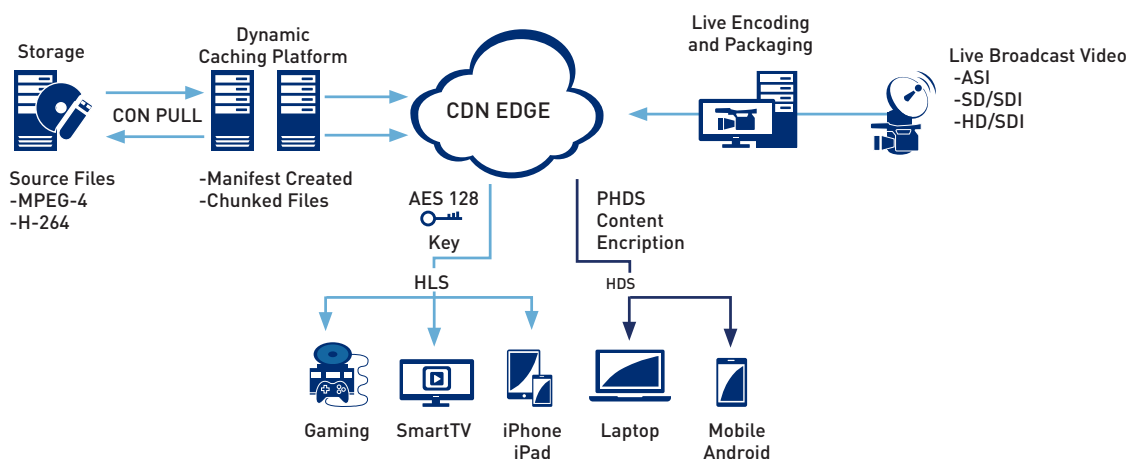
Video Delivery Details

HTTP delivery to a broad range of consumer devices anywhere around the globe.

Best practices and industry guidance on optimizing content for delivery to any device, which includes rewrapping of content dynamically upon request and segmenting within the network for adaptive formats.

Detailed reporting, content analytics and client-side statistics to provide the right data to make sound.

Level 3's Content Delivery Network services combine the advantages of a proven Internet backbone with a sophisticated CDN platform. This unique combination connects you with the benefits of our high-performance, highly scalable services and delivers those services in a simplified manner, offering you the flexibility to move between our network services at different phases in your content's lifecycle.

Diagram: Storage → Source Files (-MPEG-4, -H-264) — CON PULL → Dynamic Caching Platform (-Manifest Created, -Chunked Files) → CDN EDGE ← Live Encoding and Packaging ← Live Broadcast Video (-ASI, -SD/SDI, -HD/SDI).

AES 128 Key → HLS → Gaming, SmartTV, iPhone/iPad. PHDS Content Encription → HDS → Laptop, Mobile Android.

Features

- Signal Acquisition
- Origin and Live Storage
- Live Content Control
- Content Archive and Live DVR
- Encoding
- Content Protection
- Adaptive Origin Storage
- Content Analytics
- Dynamic Content Packaging
- Enhanced Support
- Online Video Delivery

Technical Details

Signal Acquisition	Level 3® Vyvx®	• IP or satellite acquisition
		• Backhaul transmission
		• Standard and high definition viewing
	VOD Content Ingest	• High speed ingest to Level 3 Origin Storage Platform
Content Preparation	Live Content Control	• Live stream control during signal acquisition
		• Media-format indicators during encoding
		• Optional interpret indicators during media playback
		• In-stream advertising, captioning and blackout management
	Encoding	• On-the-fly conversion of media to all viewing platforms
		• Input Codecs & Formats: MPEG-2 Transport Stream (M2TS), MPEG/H.262, MPEG-2, MPEG-4 AVC/H.264, MPEG-2 AAC, Dolby Digital, MPEG Audio
		• Output Codecs & Formats: MPEG-4 AVC / H.264, MPEG-4 AAC, Apple HTTP Live Streaming (HLS), Adobe® HTTP Dynamic Streaming (HDS), Microsoft® Smooth
Content Publishing	Adaptive Origin Storage	• Dedicated, redundant ingest solutions with full support for content control
		• Input Protocols & Formats: Apple HTTP Live Streaming (HLS), Microsoft® Smooth and Adobe Real Time Messaging Protocol (RTMP)
		• Output Protocols & Formats: Apple HTTP Live Streaming (HLS), Adobe® HTTP Dynamic Streaming (HDS), Microsoft® Smooth
	Dynamic Content Packaging	• Single source file to delivers across a broad range of platforms and devices
		• Repackage MPEG-4/H.264 Video files into Apple HTTP Live Streaming (HLS) and Adobe® HTTP Dynamic Streaming (HDS)
	Content Archive and Live DVR	• Create a VOD archive from Live content
		• DVR live media broadcasts to enable viewers to pause, resume, and playback time-shifted content
Content Delivery	Level 3℠ Origin Storage	• Highly secure and fault tolerant storage
	Level 3® Intelligent Traffic Manager	• CDN traffic management across multiple sites and data centers
	Media Delivery Platform	• Download, progressive, and adaptive streaming delivery of media.
		• Delivery Protocols & Formats: HTTP Download & Progressive Download, Apple HTTP Live Streaming (HLS), Adobe® HTTP Dynamic Streaming
	Content Protection	• Content edge protection
		• Unauthorized content access protection: geo blocking, DRM, device blocking, IP blocking and proxy authentication
Content Monitoring and Management	Media Portal	• Online access to summarized and detailed reports on the activities for the services used.
	Content Analytics	• Digital asset performance and usage metrics, live streams and video on demand
	Application Programming Interface (API)	• Programmatically manage the configuration CDN services.
	Enhanced Support	• Standard 24 x 7 monitoring in North America and Europe
		• Dedicated support personnel

ABOUT LEVEL 3

We build, operate and take end-to-end responsibility for the network solutions that connect you to the world. We put customers first and take ownership of reliability and security across our broad portfolio.

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